BRUHAT BANGALORE MAHANAGARA PALIKE

Project Division

Rajarajeshwari Nagara

ABSTRACT

Name of Work: Improvements to road, drain and other works in Khatha Nagar in Ward no 16.

SL NO	DESCRIPTION	AMOUNT in Rs
I	PART-A FOR ROAD WORKS	8499355.00
II	PART-B FOR OUTDOOR GYM WORKS	1258559.00
	Sub Total	**9757914.00**
III	Add Towards Preparation of DPR-LS	40000.00
IV	Add 2.0% Towards PMC/Third Party	195158.00
V	Miscellaneous and Contingency Charges	6928.00
	Grand Total	**10000000.00**

Mecadez Core Technologies Private Limited ★ Consultant

M/s. Mecadez Core Technologies Private Limited

Asst.Engineer
Project Division
Rajarajeshwarinagara
BBMP Bangalore

Assistant Executive Engineer
Project Division
Rajarajeshwarinagara
BBMP Bangalore

Executive Engineer
Project Division
Rajarajeshwarinagara
BBMP Bangalore

Administrative approved for Rs. 100,00,000/-
Rs. Hundred Lacks only/-
..... is accorded
under the head P-3089
.....
By E.E.(P), R.R.N. S/No-19, P No-14
Registered as EE(P), R.R.N No. 19 subject
to conditions contained in enclosed memo
No. AS/19/16-17 Date 05/06/2016.

AEE/TA

E.E(P), R.R.N

TECHNICAL SANCTION
100,00,000=00 (Rs. hundred Lacks only)
P-3089
SL NO- 73.
vide Pgnos 18-19
TS/73/16-17 04-06-2016

Scanned by CamScanner

BRUHAT BANAGLORE MAHANAGARA PALIKE

Project Division

Rajajrajeshwari Nagara

DETAILED ESTIMATE

PART-A FOR ROAD WORKS

Name of Work: Improvements to road, drain and other works in Khatha Nagar in Ward no 16.

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
1	Removing BS Slab of drain and Stacking (Page No 25., I.No.5.32 of KPWD S.R 2015-16).								
		Sqm							
	For drain cover slab								
	Cross Road No-1								
	0-180	rhs	1	180	0.90		162.00		
	Total Quantity						162.00		
	25% Deduction for Open drain and damages						-56.70		
							105.30	**63.72**	**6709.72**
2	Refixing Stone Slabs of drains and Pointing in C.M(1:3) (Page No 25., I.No.5.33 of KPWD S.R 2015-16).								
		Sqm							
	For drain cover slab								
	Cross Road No-1								
	0-180	rhs	1	180	0.90		162.00		
	Total Quantity						162.00		
	25% Deduction for Open drain and damages						-56.70		
							105.30	**78.84**	**8301.85**
3	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No141., I.No.19.1 of KPWD S.R 2015-16).								
		Cum							
	Earthwork for desilting of drains								
	Cross Road No-1								
	0-180		2	180	0.50	0.45	81.00		
	for approach drain at main road side								
	0-100		1	70	1.50	1.35	141.75		
							222.75	**187.01**	**41656.48**

Scanned by CamScanner

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
4	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20.(Page No 136, I.No.18.20 of KPWD S.R 2015-16).								
		Cum							
	for damaged road								
	Cross Road No-1								
	0-180		1	180	6.75	0.20	243.00		
	Cross Road No-2								
	0-24		1	24	1.00	0.20	4.80		
	Cross Road No-3								
	0-23		1	23	1.50	0.20	6.90		
	Cross Road No-4								
	0-19		1	19	1.00	0.20	3.80		
	Cross Road No-5								
	0-60		1	60	2.00	0.20	24.00		
	Cross Road No-6								
	0-145		1	145	3.80	0.20	110.20		
	Cross Road No-7								
	0-46		1	46	5.60	0.20	51.52		
	Cross Road No-8								
	0-20		1	20	1.00	0.20	4.00		
	Cross Road No-9								
	0-24		1	24	3.50	0.20	16.80		
	Cross Road No-10								
	0-15		1	15	1.50	0.20	4.50		
	Cross Road No-11								
	0-17		1	17	2.30	0.20	7.82		
	Cross Road No-12								
	0-16		1	16	1.20	0.20	3.84		
	Cross Road No-13								
	0-14		1	14	1.80	0.20	5.04		
	Cross Road No-14								
	0-25		1	25	2.50	0.20	12.50		
	Cross Road No-15								
	0-74		1	74	6.20	0.20	91.76		
	Cross Road No-16								
	0-33		1	33	7.10	0.20	46.86		
	Cross Road No-17								
	0-12		1	12	5.30	0.20	12.72		
	Cross Road No-18								
	0-93		1	93	5.81	0.20	108.07		
	Cross Road No-19								
	0-9		1	9	1.00	0.20	1.80		
	Cross Road No-20								
	0-14		1	14	2.50	0.20	7.00		

Scanned by CamScanner

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
	Cross Road No-21								
	0-30		1	30	1.50	0.20	9.00		
	Cross Road No-22								
	0-23		1	23	2.00	0.20	9.20		
	Cross Road No-23								
	0-18		1	18	1.50	0.20	5.40		
	Cross Road No-24								
	0-62		1	62	1.20	0.20	14.88		
	Cross Road No-25								
	0-19		1	19	1.10	0.20	4.18		
							809.59	**468.89**	**379608.66**
5	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation,plinth and cills including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 (Page No 13., I.No.4.7 of KPWD S.R 2015-16).								
		Cum							
	bed concrete for flagging course								
	Cross Road No-1								
	0-180		2	180	0.20	0.10	7.20		
	for approach drain at main road side								
	0-100		1	70	1.50	0.15	15.75		
							22.95	**5491.80**	**126036.81**
6	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (Page No 18., I.No.4.49.1 of KPWD S.R 2015-16).								
		Cum							
	for Drain bottom slab								
	for approach drain at main road side								
	0-100		1	70	1.30	0.15	13.65		
	for Drain vertical slab								
	for approach drain at main road side								
	0-100		2	70	0.20	0.90	25.20		
							38.85	**6332.04**	**245999.75**

Scanned by CamScanner

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
7	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , ncluding attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (Page No 15., I.No.4.31 of KPWD S.R 2015-16).								
		Sqm							
	for Drain bottom slab								
	for approach drain at main road side								
	0-100		2	70		0.15	21.00		
	for Drain vertical slab								
	for approach drain at main road side								
	0-100		4	70		0.90	252.00		
							273.00	**306.72**	**83734.56**
8	KSRB 4.9.2 : Providing T .M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500 (Page No 17., I.No.4.46.2 of KPWD S.R 2015-16).								
		Tonne							
	Considering 65 kg of steel per cum of concrete for drain						2.53		
							2.53	**69805.80**	**176608.67**
9	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (Page No 25., I.No.5.27 of KPWD S.R 2015-16).								
		Sqm							
	for flagging course								
	Cross Road No-1								
	0-180		2	180		0.40	144.00		
							144.00	**1018.44**	**146655.36**

Scanned by CamScanner

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
10	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Page No 12., I.No.4.6 of KPWD S.R 2015-16).								
		Cum							
	bed concrete for flagging course								
	Cross Road No-1								
	0-180		2	180	0.20	0.05	3.60		
							3.60	**5490.72**	**19766.59**
11	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								
		Sqm							
	new cover slabs								
	Cross Road No-1								
	0-180		1	180	1.00		180.00		
	for approach drain at main road side								
	0-100		1	70	1.30		91.00		
	Provisions for open drain and damages,ref.Item-2						56.70		
	deduction for culvert portions								
	3 nos		-3	6	1.30		-23.40		
							304.30	**1834.00**	**558086.20**
12	Providing precast slab of 250mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								
		Sqm							
	new cover slabs								
	for approach drain at main road side								
	culvert poritons	3 nos	3	6	1.30		23.40		
							23.40	**5111.00**	**119597.40**
13	KSRB15-3.4 : Providing 15mm thick cement plaster in single coat with cement mortar 1:3 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (Page No 112, I.No.15.12 of KPWD S.R 2015-16).								
		Sqm							
	for Side slab at harali katte in Khatha nagara								

Scanned by CamScanner

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
	Location-1	2x(5+8)	1	26		1.20	31.20		
	Location-2	2x(5+10)	1	30		1.20	36.00		
							67.20	**210.60**	**14152.32**
14	Providing and fixing 20mm thick and mininimum width of 1200mm gang saw water cut sadarhalli grey granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing. (Page No 109, I.No.14.61.1 of KPWD S.R 2015-16).								
		Sqm							
	for top slab at harali katte in Khatha nagara								
	Location-1		1	6	8.00		48.00		
	Location-2		1	6	10.00		60.00		
	for Side slab at harali katte in Khatha nagara								
	Location-1	2x(5+8)	1	26		1.20	31.20		
	Location-2	2x(5+10)	1	30		1.20	36.00		
							175.20	**2086.56**	**365565.31**
15	KSRRB M300-14. Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 (Page No 142., I.No.19.14 of KPWD S.R 2015-16).								
		Cum							
	for new road construction								
	Cross Road No-1								
	0-180		1	180	6.75	0.10	121.50		
	Cross Road No-2								
	0-24		1	24	1.00	0.10	2.40		
	Cross Road No-3								
	0-23		1	23	1.50	0.10	3.45		
	Cross Road No-4								
	0-19		1	19	1.00	0.10	1.90		
	Cross Road No-5								
	0-60		1	60	2.00	0.10	12.00		
	Cross Road No-6								
	0-145		1	145	3.80	0.10	55.10		
	Cross Road No-7								
	0-46		1	46	5.60	0.10	25.76		
	Cross Road No-8								
	0-20		1	20	1.00	0.10	2.00		
	Cross Road No-9								
	0-24		1	24	3.50	0.10	8.40		

Scanned by CamScanner

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
	Cross Road No-10								
	0-15		1	15	1.50	0.10	2.25		
	Cross Road No-11								
	0-17		1	17	2.30	0.10	3.91		
	Cross Road No-12								
	0-16		1	16	1.20	0.10	1.92		
	Cross Road No-13								
	0-14		1	14	1.80	0.10	2.52		
	Cross Road No-14								
	0-25		1	25	2.50	0.10	6.25		
	Cross Road No-15								
	0-74		1	74	6.20	0.10	45.88		
	Cross Road No-16								
	0-33		1	33	7.10	0.10	23.43		
	Cross Road No-17								
	0-12		1	12	5.30	0.10	6.36		
	Cross Road No-18								
	0-93		1	93	5.81	0.10	54.03		
	Cross Road No-19								
	0-9		1	9	1.00	0.10	0.90		
	Cross Road No-20								
	0-14		1	14	2.50	0.10	3.50		
	Cross Road No-21								
	0-30		1	30	1.50	0.10	4.50		
	Cross Road No-22								
	0-23		1	23	2.00	0.10	4.60		
	Cross Road No-23								
	0-18		1	18	1.50	0.10	2.70		
	Cross Road No-24								
	0-62		1	62	1.20	0.10	7.44		
	Cross Road No-25								
	0-19		1	19	1.10	0.10	2.09		
							404.79	**152.45**	**61710.24**
16	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 (Page No 12., I.No.4.2 of KPWD S.R 2015-16).								
		Cum							
	for new road construction								
	Cross Road No-1								
	0-180		1	180	6.75	0.10	121.50		
	Cross Road No-2								
	0-24		1	24	1.00	0.10	2.40		
	Cross Road No-3								
	0-23		1	23	1.50	0.10	3.45		

Scanned by CamScanner

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
	Cross Road No-4								
	0-19		1	19	1.00	0.10	1.90		
	Cross Road No-5								
	0-60		1	60	2.00	0.10	12.00		
	Cross Road No-6								
	0-145		1	145	3.80	0.10	55.10		
	Cross Road No-7								
	0-46		1	46	5.60	0.10	25.76		
	Cross Road No-8								
	0-20		1	20	1.00	0.10	2.00		
	Cross Road No-9								
	0-24		1	24	3.50	0.10	8.40		
	Cross Road No-10								
	0-15		1	15	1.50	0.10	2.25		
	Cross Road No-11								
	0-17		1	17	2.30	0.10	3.91		
	Cross Road No-12								
	0-16		1	16	1.20	0.10	1.92		
	Cross Road No-13								
	0-14		1	14	1.80	0.10	2.52		
	Cross Road No-14								
	0-25		1	25	2.50	0.10	6.25		
	Cross Road No-15								
	0-74		1	74	6.20	0.10	45.88		
	Cross Road No-16								
	0-33		1	33	7.10	0.10	23.43		
	Cross Road No-17								
	0-12		1	12	5.30	0.10	6.36		
	Cross Road No-18								
	0-93		1	93	5.81	0.10	54.03		
	Cross Road No-19								
	0-9		1	9	1.00	0.10	0.90		
	Cross Road No-20								
	0-14		1	14	2.50	0.10	3.50		
	Cross Road No-21								
	0-30		1	30	1.50	0.10	4.50		
	Cross Road No-22								
	0-23		1	23	2.00	0.10	4.60		
	Cross Road No-23								
	0-18		1	18	1.50	0.10	2.70		
	Cross Road No-24								
	0-62		1	62	1.20	0.10	7.44		
	Cross Road No-25								
	0-19		1	19	1.10	0.10	2.09		
							404.79	**5236.92**	**2119852.85**

Scanned by CamScanner

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
17	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement,thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30, with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges,steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) (Page No,-174, I.No.22.6.1 of KPWD S.R 2015-16)								
		Cum							
	for new road construction								
	Cross Road No-1								
	0-180		1	180	6.75	0.15	182.25		
	Cross Road No-2								
	0-24		1	24	1.00	0.15	3.60		
	Cross Road No-3								
	0-23		1	23	1.50	0.15	5.18		
	Cross Road No-4								
	0-19		1	19	1.00	0.15	2.85		
	Cross Road No-5								
	0-60		1	60	2.00	0.15	18.00		
	Cross Road No-6								
	0-145		1	145	3.80	0.15	82.65		
	Cross Road No-7								
	0-46		1	46	5.60	0.15	38.64		
	Cross Road No-8								
	0-20		1	20	1.00	0.15	3.00		
	Cross Road No-9								
	0-24		1	24	3.50	0.15	12.60		
	Cross Road No-10								
	0-15		1	15	1.50	0.15	3.38		
	Cross Road No-11								
	0-17		1	17	2.30	0.15	5.87		
	Cross Road No-12								
	0-16		1	16	1.20	0.15	2.88		
	Cross Road No-13								

Scanned by CamScanner